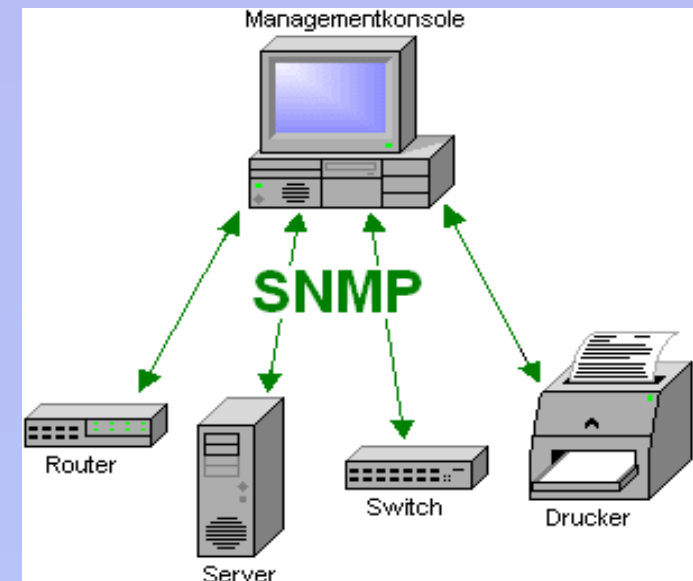


SNMP CPUmeter GUI

Cíl projektu

Sledovat zatížení procesoru pomocí protokolu SNMP v přehledném GUI



SNMP CPUmeter GUI

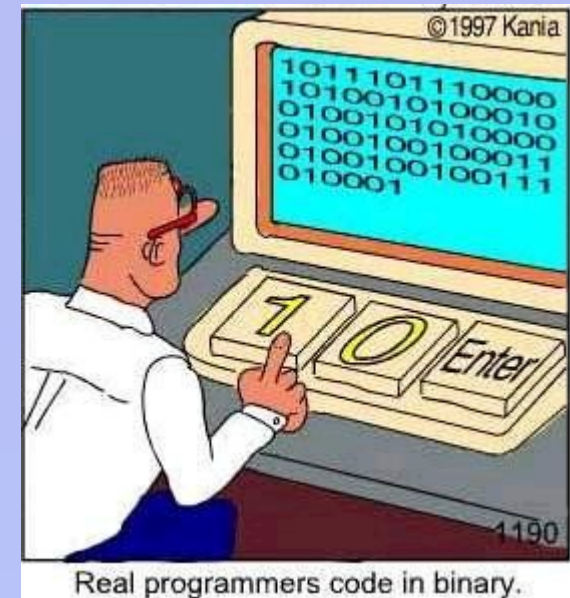
Obsah práce

Instalace a nastavení SNMP daemona

Vyhlednání CPU parametru v MIB

Čtení hodnot protokolem SNMP

Programování aplikace



SNMP CPUmeter GUI

UBUNTU + SNMP = `sudo apt-get install snmp snmpget snmpwalk`



SNMP CPUmeter GUI

SNMP MIB

Users CPU time in %

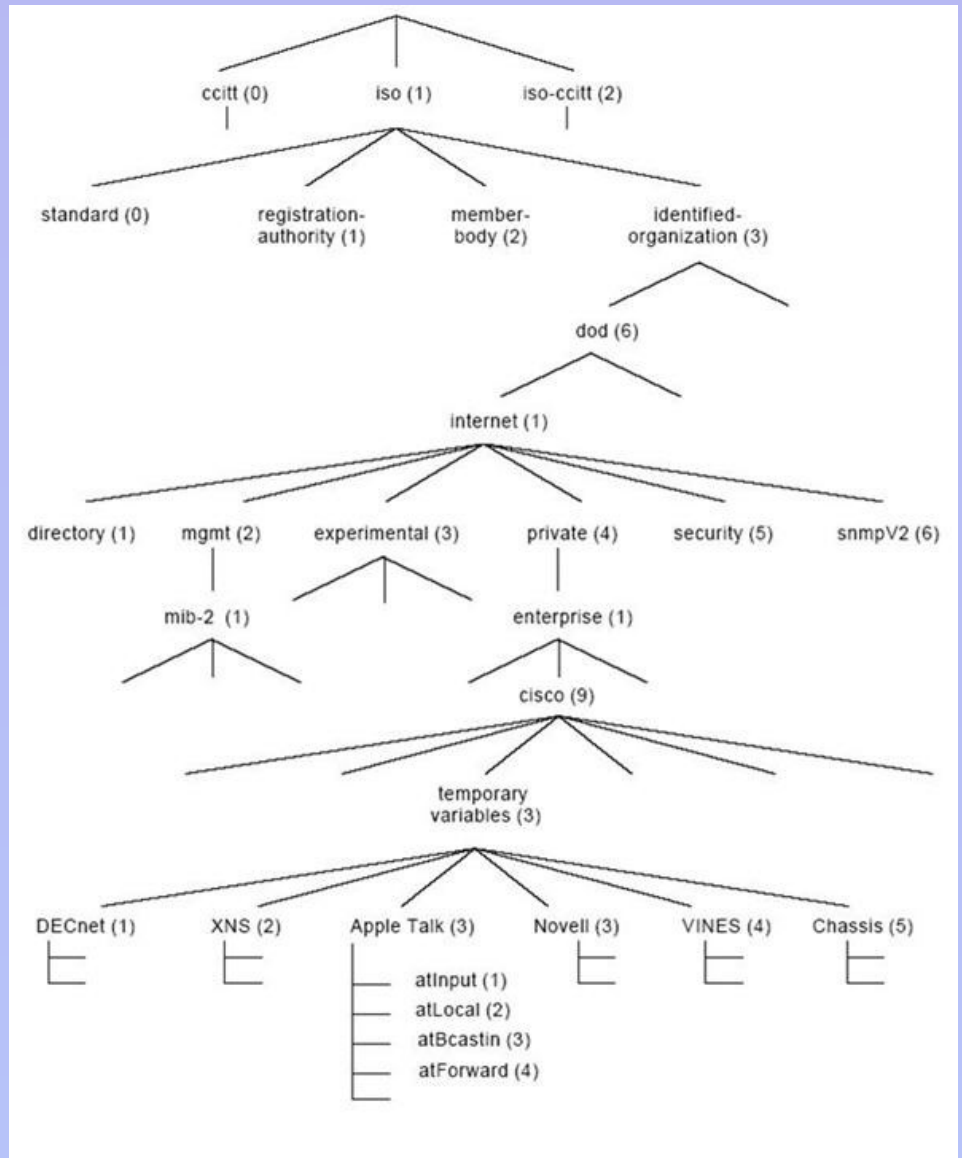
.1.3.6.1.4.1.2021.11.9.0

System CPU time in %

.1.3.6.1.4.1.2021.11.11.0

Idle CPU time in %

.1.3.6.1.4.1.2021.11.10.0



SNMP CPUmeter GUI

Python programming

Python 2.6

WxPython library

```
class SnmpGuiClient(wx.Frame):
```

```
    FROM = 'localhost'
```

```
    VERSION = '2c'
```

```
    COMMUNITY = 'public'
```

```
    DATA = [
```

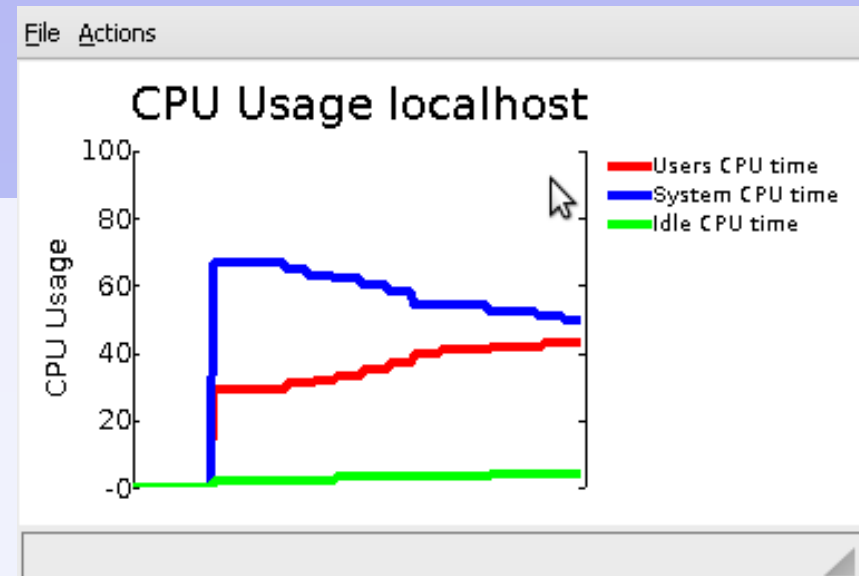
```
        ('.1.3.6.1.4.1.2021.11.9.0', 'red', 'Users CPU time'),
```

```
        ('.1.3.6.1.4.1.2021.11.11.0', 'blue', 'System CPU time'),
```

```
        ('.1.3.6.1.4.1.2021.11.10.0', 'green', 'Idle CPU time')
```

```
    ]
```

```
    REFRESH_TIME = 400
```



SNMP CPUmeter GUI

Python programming

Python 2.6

WxPython library

```
class SnmpGuiClient(wx.Frame):
```

```
    FROM = 'localhost'
```

```
    VERSION = '2c'
```

```
    COMMUNITY = 'public'
```

```
    DATA = [
```

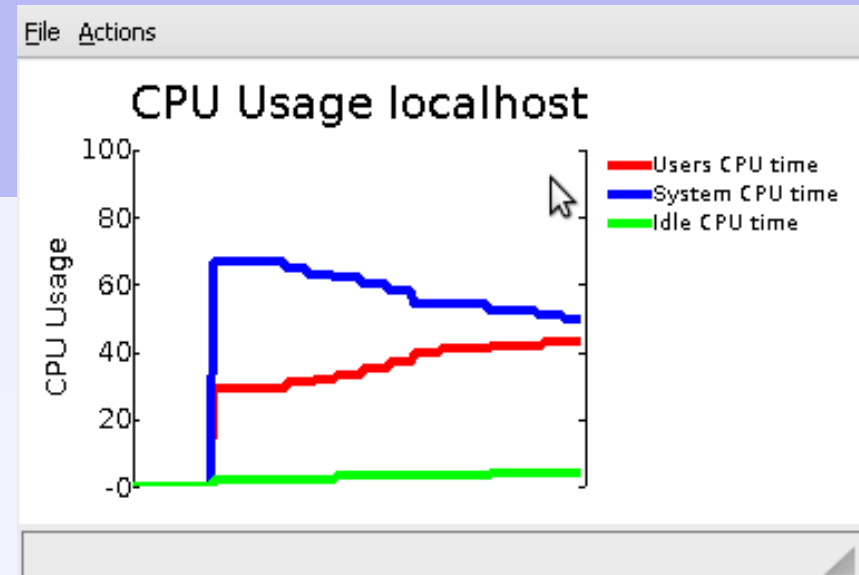
```
        ('.1.3.6.1.4.1.2021.11.9.0', 'red', 'Users CPU time'),
```

```
        ('.1.3.6.1.4.1.2021.11.11.0', 'blue', 'System CPU time'),
```

```
        ('.1.3.6.1.4.1.2021.11.10.0', 'green', 'Idle CPU time')
```

```
    ]
```

```
    REFRESH_TIME = 400
```



SNMP CPUmeter GUI



SNMP CPUmeter GUI

Zdroje

<http://hw.cz/Produkty/ART957-SNMP-protokol-a-jeho-vyuziti.html>

<http://www.samuraj-cz.com/clanek/snmp-simple-network-management-protocol/>

<http://www.mibsearch.com/>

<http://docs.python.org>